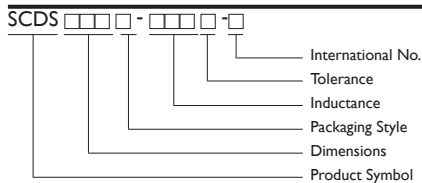


SMT Power Inductors

SCDS Series



PRODUCT IDENTIFICATION



- T : Packing : Tape and Reel
- HP : Low DCR
- LD : High Power
- Tolerance : K=±10% ; M=±20% ; T=±30%
- Internal No.: B: Silver plated terminals (3D12~6D38); S: Base type terminals (2D11~2D18HP & 62T&127)
- Note : YAGEO will start to release lead-free terminals that meet SONY SS-00259's criterion and YAGEO Internal No will changed to "N" as identification.
EX : SCDS 127T-100M-N

FEATURES

Available in magnetically shielded.

Low DC resistance.

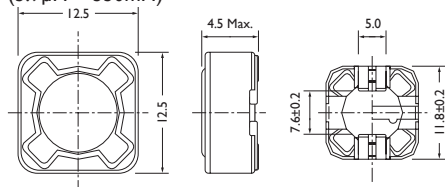
Suitable for large currents.

Ideal for a variety of DC - DC converter inductor applications.

Available on tape and reel for auto surface mounting.

SCDS124

(3.9μH ~ 330mH)



APPLICATIONS

Power supply for VTRs.

OA equipment.

LCD televisions.

Notebook PCs.

Portable communication equipment.

DC / DC converters, etc.

CONFIGURATION AND DIMENSIONS

Dimensions : mm

TYPE	SHAPES AND DIMENSION		
SCDS62T (3.3μH ~ 330μH)			
SCDS64T (10μH ~ 1000μH)			
SCDS73 (10μH ~ 1.0mH)			
SCDS74 (10μH ~ 1.0mH)			
SCDS104R (1.5μH ~ 330μH)			
SCDS125 (10μH ~ 1.0mH)			
SCDS127 (10μH ~ 47mH)			



STANDARD SPECIFICATIONS

PART INDUCTANCE D.C.R.(M)MAX.

RATED CURRENT(A)MAX.

(H)	SCDS 62T	SCDS 64T	SCDS 73	SCDS 74	SCDS 104R	SCDS 124	SCDS 125	SCDS 127	SCDS 62	SCDS 64	SCDS 73	SCDS 74	SCDS 104R	SCDS 124	SCDS 125	SCDS 127
1R0 1.0																
1R2 1.2								7.0								9.80
1R5 1.5					8.1								10.0			
1R8 1.8																
2R2 2.2									1.94							
2R4 2.4								11.5								8.00
2R5 2.5					10.5								7.5			
2R7 2.7																
3R0 3.0																
3R3 3.3	68															
3R5 3.5								13.5								7.50
3R8 3.8					13								6.0			
3R9 3.9						15								6.50		
4R1 4.1																
4R2 4.2																
4R7 4.7	80					18		15.8	1.63					5.70		6.80
5R0 5.0																
5R2 5.2					22								5.5			
5R3 5.3																
5R4 5.4																
5R5 5.5	96								1.40							
5R6 5.6																
6R0 6.0																
6R1 6.1								17.6								6.60
6R2 6.2																
6R8 6.8	100					23			1.33					4.90		
7R0 7.0					27								4.8			
7R3 7.3																
7R4 7.4																
7R6 7.6								20.0								5.90
8R2 8.2	100								1.14							
8R6 8.6																
8R7 8.7																
8R9 8.9																
100 10	150	120	72	49	35	28	25	21.6	1.10	1.35	1.68	1.84	4.4	4.50	4.00	5.40
120 12	200	130	98	58		38	27	24.3	1.00	1.22	1.52	1.71		4.00	3.50	4.90
150 15	230	180	130	81	50	50	30	27.0	0.90	1.11	1.33	1.47	3.6	3.20	3.30	4.50
180 18	270	240	140	91		57	34	39.2	0.80	1.02	1.20	1.31		3.10	3.00	3.90
220 22	340	270	190	110	73	66	36	43.2	0.74	0.91	1.07	1.23	2.9	2.90	2.80	3.60
270 27	380	300	210	150		80	51	45.9	0.66	0.82	0.96	1.12		2.80	2.30	3.40
330 33	450	330	240	170	93	97	57	64.8	0.59	0.74	0.91	0.96	2.3	2.70	2.10	3.00
390 39	490	370	320	230		132	68	72.9	0.54	0.69	0.77	0.91		2.10	2.00	2.75
470 47	690	520	360	260	128	150	75	100	0.50	0.62	0.76	0.88	2.1	1.90	1.80	2.50
560 56	780	560	470	350		190	110	110	0.46	0.58	0.68	0.75		1.80	1.70	2.35
680 68	1070	630	520	380	213	220	120	140	0.42	0.51	0.61	0.69	1.5	1.50	1.50	2.10
820 82	1210	710	690	430		260	140	160	0.38	0.46	0.57	0.61		1.30	1.40	1.95
101 100	1390	1030	790	610	304	308	160	220	0.34	0.42	0.50	0.60	1.35	1.20	1.30	1.70
121 120	1900	1150	890	660		380	170	250	0.31	0.38	0.49	0.52		1.10	1.10	1.60
151 150	2180	1680	1270	880	506	530	230	280	0.28	0.35	0.43	0.46	1.15	0.95	1.00	1.42
181 180	2770	1870	1450	980		620	290	350	0.26	0.32	0.39	0.42		0.85	0.90	1.30
221 220	3120	2080	1650	1170	756	700	400	390	0.23	0.29	0.35	0.36	0.92	0.80	0.80	1.16
271 270	4380	2370	2310	1640		876	460	560	0.22	0.26	0.32	0.34		0.60	0.75	1.06
331 330	4940	2670	2620	1860	1.09	990	510	640	0.19	0.23	0.28	0.32	0.70	0.50	0.68	0.95
391 390		2940	2940	2850			690	700		0.22	0.26	0.29			0.65	0.88
471 470		3930	4180	3010			770	980		0.20	0.24	0.26			0.58	0.79
561 560		5430	4670	3620			860	1070		0.18	0.22	0.23			0.54	0.73
681 680		7320	5730	4630			1200	1460		0.17	0.19	0.22			0.48	0.67
821 820		8240	6540	5200			1340	1640		0.15	0.18	0.20			0.43	0.60
102 1000		9260	9440	6000			1530	1820		0.14	0.16	0.18			0.40	0.55

• Test Freq.(L): SCDS62: 3.3 ~ 8.2H(7.96MHz/1V), 10~82H(2.52MHz/1V), 100 ~ 330H(1KHz/1V)

SCDS64/73/74/125/127: (1KHz/1V)

• Other type

Rated current :The rate current indicates the current when the inductance decreases to 65%. Over of it's nominal value or D.C.current when the temperature rising Dt =40°C lower, whichever is lower.

• Test Instrument :L

: HP4192A LF IMPEDANCE ANALYZER

RDC

: CHEN HWA 502BC

Rated current: HP4284+42841A or Ch1061+CH301A

Tolerance Of Inductors

- SCDS62 3.3~330H 20%(M)
- SCDS64 10~1000H 20%(M)
- SCDS73 10~1000H 20%(M)
- SCDS74 10~1000H 20%(M)
- SCDS104R 1.5~330H 30%(T)
- SCDS124 3.9~330H 20%(M)
- SCDS125 1.0~1000H 20%(M)
- SCDS127 1.2~7.6H+40-20%(N)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μH)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCDS62T-3R3 □ -N	3.3	7.96MHz, IV	0.068+0	1.94
SCDS62T-3R6 □ -N	3.6	7.96MHz, IV	0.08+0	1.63
SCDS62T-4R7 □ -N	4.7	7.96MHz, IV	0.08+0	1.63
SCDS62T-5R6 □ -N	5.6	7.96MHz, IV	0.96+0	1.4
SCDS62T-6R8 □ -N	6.8	7.96MHz, IV	0.1+0	1.33
SCDS62T-8R2 □ -N	8.2	7.96MHz, IV	0.1+0	1.14
SCDS62T-100 □ -N	10	2.52MHz, IV	0.15+0	1.1
SCDS62T-120 □ -N	12	2.52MHz, IV	0.2+0	1
SCDS62T-150 □ -N	15	2.52MHz, IV	0.23+0	0.9
SCDS62T-180 □ -N	18	2.52MHz, IV	0.27+0	0.8
SCDS62T-220 □ -N	22	2.52MHz, IV	0.34+0	0.74
SCDS62T-270 □ -N	27	2.52MHz, IV	0.38+0	0.66
SCDS62T-330 □ -N	33	2.52MHz, IV	0.45+0	0.59
SCDS62T-390 □ -N	39	2.52MHz, IV	0.49+0	0.54
SCDS62T-470 □ -N	47	2.52MHz, IV	0.69+0	0.5
SCDS62T-560 □ -N	56	2.52MHz, IV	0.78+0	0.46
SCDS62T-680 □ -N	68	2.52MHz, IV	1.07+0	0.42
SCDS62T-820 □ -N	82	2.52MHz, IV	1.21+0	0.38
SCDS62T-101 □ -N	100	1KHz, IV	1.39+0	0.34
SCDS62T-121 □ -N	120	1KHz, IV	1.9+0	0.31
SCDS62T-151 □ -N	150	1KHz, IV	2.18+0	0.28
SCDS62T-181 □ -N	180	1KHz, IV	2.77+0	0.26
SCDS62T-221 □ -N	220	1KHz, IV	3.12+0	0.23
SCDS62T-271 □ -N	270	1KHz, IV	4.38+0	0.22
SCDS62T-331 □ -N	330	1KHz, IV	4.94+0	0.19

NOTE : □ -tolerance K=±10% / =±15% / M=±20% / N=+40% -20%
1.Operating temperature range -40°C~85°C
2.Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREETYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCDS64T-100 □ -N	10	1KHz, 1V	0.12+0	1.35
SCDS64T-120 □ -N	12	1KHz, 1V	0.13+0	1.22
SCDS64T-150 □ -N	15	1KHz, 1V	0.18+0	1.11
SCDS64T-180 □ -N	18	1KHz, 1V	0.24+0	1.02
SCDS64T-220 □ -N	22	1KHz, 1V	0.27+0	0.91
SCDS64T-270 □ -N	27	1KHz, 1V	0.3+0	0.82
SCDS64T-330 □ -N	33	1KHz, 1V	0.33+0	0.74
SCDS64T-390 □ -N	39	1KHz, 1V	0.37+0	0.69
SCDS64T-470 □ -N	47	1KHz, 1V	0.52+0	0.62
SCDS64T-560 □ -N	56	1KHz, 1V	0.56+0	0.58
SCDS64T-680 □ -N	68	1KHz, 1V	0.63+0	0.51
SCDS64T-820 □ -N	82	1KHz, 1V	0.71+0	0.46
SCDS64T-101 □ -N	100	1KHz, 1V	1.03+0	0.42
SCDS64T-121 □ -N	120	1KHz, 1V	1.15+0	0.38
SCDS64T-151 □ -N	150	1KHz, 1V	1.68+0	0.35
SCDS64T-181 □ -N	180	1KHz, 1V	1.87+0	0.32
SCDS64T-221 □ -N	220	1KHz, 1V	2.08+0	0.29
SCDS64T-271 □ -N	270	1KHz, 1V	2.37+0	0.26
SCDS64T-331 □ -N	330	1KHz, 1V	2.67+0	0.23
SCDS64T-391 □ -N	390	1KHz, 1V	2.94+0	0.22
SCDS64T-471 □ -N	470	1KHz, 1V	3.93+0	0.2
SCDS64T-561 □ -N	560	1KHz, 1V	5.43+0	0.18
SCDS64T-681 □ -N	680	1KHz, 1V	7.32+0	0.17
SCDS64T-821 □ -N	820	1KHz, 1V	8.24+0	0.15
SCDS64T-102 □ -N	1000	1KHz, 1V	9.26+0	0.14

NOTE : □ -tolerance K=±10% / =±15% / M=±20% / N=+40% -20%

1. Operating temperature range -40°C~85°C

2. Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μH)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCDS73T-100 □ -N	10	1KHz,1V	0.072+0	1.68
SCDS73T-120 □ -N	12	1KHz,1V	0.098+0	1.52
SCDS73T-150 □ -N	15	1KHz,1V	0.13+0	1.33
SCDS73T-180 □ -N	18	1KHz,1V	0.14+0	1.2
SCDS73T-220 □ -N	22	1KHz,1V	0.19+0	1.07
SCDS73T-270 □ -N	27	1KHz,1V	0.21+0	0.96
SCDS73T-330 □ -N	33	1KHz,1V	0.24+0	0.91
SCDS73T-390 □ -N	39	1KHz,1V	0.32+0	0.77
SCDS73T-470 □ -N	47	1KHz,1V	0.36+0	0.76
SCDS73T-560 □ -N	56	1KHz,1V	0.47+0	0.68
SCDS73T-680 □ -N	68	1KHz,1V	0.52+0	0.61
SCDS73T-820 □ -N	82	1KHz,1V	0.69+0	0.57
SCDS73T-101 □ -N	100	1KHz,1V	0.79+0	0.5
SCDS73T-121 □ -N	120	1KHz,1V	0.89+0	0.49
SCDS73T-151 □ -N	150	1KHz,1V	1.27+0	0.43
SCDS73T-181 □ -N	180	1KHz,1V	1.45+0	0.39
SCDS73T-221 □ -N	220	1KHz,1V	1.65+0	0.35
SCDS73T-271 □ -N	270	1KHz,1V	2.31+0	0.32
SCDS73T-331 □ -N	330	1KHz,1V	2.62+0	0.28
SCDS73T-391 □ -N	390	1KHz,1V	2.94+0	0.26
SCDS73T-471 □ -N	470	1KHz,1V	4.18+0	0.24
SCDS73T-561 □ -N	560	1KHz,1V	4.67+0	0.22
SCDS73T-681 □ -N	680	1KHz,1V	5.73+0	0.19
SCDS73T-821 □ -N	820	1KHz,1V	6.54+0	0.18
SCDS73T-102 □ -N	1000	1KHz,1V	9.44+0	0.16

NOTE : □ -tolerance K=±10% / =±15% / M=±20% / N=+40% -20%
1.Operating temperature range -40°C~85°C
2.Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCDS74T-100 □ -N	10	1KHz, 1V	0.049+0	1.84
SCDS74T-120 □ -N	12	1KHz, 1V	0.058+0	1.71
SCDS74T-150 □ -N	15	1KHz, 1V	0.081+0	1.47
SCDS74T-180 □ -N	18	1KHz, 1V	0.091+0	1.31
SCDS74T-220 □ -N	22	1KHz, 1V	0.11+0	1.23
SCDS74T-270 □ -N	27	1KHz, 1V	0.15+0	1.12
SCDS74T-330 □ -N	33	1KHz, 1V	0.17+0	0.96
SCDS74T-390 □ -N	39	1KHz, 1V	0.23+0	0.91
SCDS74T-470 □ -N	47	1KHz, 1V	0.26+0	0.88
SCDS74T-560 □ -N	56	1KHz, 1V	0.35+0	0.75
SCDS74T-680 □ -N	68	1KHz, 1V	0.38+0	0.69
SCDS74T-820 □ -N	82	1KHz, 1V	0.43+0	0.61
SCDS74T-101 □ -N	100	1KHz, 1V	0.61+0	0.6
SCDS74T-121 □ -N	120	1KHz, 1V	0.66+0	0.52
SCDS74T-151 □ -N	150	1KHz, 1V	0.88+0	0.46
SCDS74T-181 □ -N	180	1KHz, 1V	0.98+0	0.42
SCDS74T-221 □ -N	220	1KHz, 1V	1.17+0	0.36
SCDS74T-271 □ -N	270	1KHz, 1V	1.64+0	0.34
SCDS74T-331 □ -N	330	1KHz, 1V	1.86+0	0.32
SCDS74T-391 □ -N	390	1KHz, 1V	2.85+0	0.29
SCDS74T-471 □ -N	470	1KHz, 1V	3.01+0	0.26
SCDS74T-561 □ -N	560	1KHz, 1V	3.62+0	0.23
SCDS74T-681 □ -N	680	1KHz, 1V	4.63+0	0.22
SCDS74T-821 □ -N	820	1KHz, 1V	5.2+0	0.2
SCDS74T-102 □ -N	1000	1KHz, 1V	6.0+0	0.18

NOTE : □ -tolerance K=±10% / =±15% / M=±20% / N=+40% -20%

1. Operating temperature range -40°C~85°C

2. Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μH)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCDSI04R-1R5 □ -N	1.5	100KHz, 1V	0.0081+0	10
SCDSI04R-2R5 □ -N	2.5	100KHz, 1V	0.0105+0	7.5
SCDSI04R-3R8 □ -N	3.8	100KHz, 1V	0.013+0	6
SCDSI04R-5R2 □ -N	5.2	100KHz, 1V	0.022+0	5.5
SCDSI04R-6R8 □ -N	6.8	100KHz, 1V	0.027+0	5
SCDSI04R-7R0 □ -N	7	100KHz, 1V	0.027+0	4.8
SCDSI04R-100 □ -N	10	100KHz, 1V	0.035+0	4.4
SCDSI04R-150 □ -N	15	100KHz, 1V	0.050+0	3.6
SCDSI04R-220 □ -N	22	100KHz, 1V	0.073+0	2.9
SCDSI04R-330 □ -N	33	100KHz, 1V	0.093+0	2.3
SCDSI04R-390 □ -N	39	100KHz, 1V	0.128+0	2.1
SCDSI04R-470 □ -N	47	100KHz, 1V	0.128+0	2.1
SCDSI04R-680 □ -N	68	100KHz, 1V	0.213+0	1.5
SCDSI04R-820 □ -N	82	100KHz, 1V	0.290+0	1.4
SCDSI04R-101 □ -N	100	100KHz, 1V	0.304+0	1.35
SCDSI04R-151 □ -N	150	100KHz, 1V	0.506+0	1.15
SCDSI04R-201 □ -N	200	100KHz, 1V	0.756+0	0.92
SCDSI04R-221 □ -N	220	100KHz, 1V	0.756+0	0.92
SCDSI04R-331 □ -N	330	100KHz, 1V	1.090+0	0.7

NOTE : □ -tolerance K=±10% / =±15% / M=±20% / N=+40% -20%
1.Operating temperature range -40°C~85°C
2.Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREETYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCDSI24T-3R3 □ -N	3.3	100KHz, IV	0.015+0	6.5
SCDSI24T-3R9 □ -N	3.9	100KHz, IV	0.015+0	6.5
SCDSI24T-4R7 □ -N	4.7	100KHz, IV	0.018+0	5.7
SCDSI24T-6R8 □ -N	6.8	100KHz, IV	0.023+0	4.9
SCDSI24T-100 □ -N	10	100KHz, IV	0.028+0	4.5
SCDSI24T-120 □ -N	12	100KHz, IV	0.038+0	4
SCDSI24T-150 □ -N	15	100KHz, IV	0.050+0	3.2
SCDSI24T-180 □ -N	18	100KHz, IV	0.057+0	3.1
SCDSI24T-220 □ -N	22	100KHz, IV	0.066+0	2.9
SCDSI24T-270 □ -N	27	100KHz, IV	0.080+0	2.8
SCDSI24T-330 □ -N	33	100KHz, IV	0.097+0	2.7
SCDSI24T-390 □ -N	39	100KHz, IV	0.132+0	2.1
SCDSI24T-470 □ -N	47	100KHz, IV	0.150+0	1.9
SCDSI24T-560 □ -N	56	100KHz, IV	0.190+0	1.8
SCDSI24T-680 □ -N	68	100KHz, IV	0.220+0	1.5
SCDSI24T-820 □ -N	82	100KHz, IV	0.260+0	1.3
SCDSI24T-101 □ -N	100	100KHz, IV	0.308+0	1.2
SCDSI24T-121 □ -N	120	100KHz, IV	0.380+0	1.1
SCDSI24T-151 □ -N	150	100KHz, IV	0.530+0	0.95
SCDSI24T-181 □ -N	180	100KHz, IV	0.620+0	0.85
SCDSI24T-221 □ -N	220	100KHz, IV	0.700+0	0.8
SCDSI24T-271 □ -N	270	100KHz, IV	0.876+0	0.6
SCDSI24T-331 □ -N	330	100KHz, IV	0.990+0	0.5

NOTE : □ -tolerance K=±10% / =±15% / M=±20% / N=+40% -20%

1. Operating temperature range -40°C~85°C

2. Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μH)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCDSI25T-3R3 □ -N	3.3	1KHz,1V	0.0158+0	8
SCDSI25T-4R7 □ -N	4.7	1KHz,1V	0.018+0	7.6
SCDSI25T-100 □ -N	10	1KHz,1V	0.025+0	4
SCDSI25T-120 □ -N	12	1KHz,1V	0.027+0	3.5
SCDSI25T-150 □ -N	15	1KHz,1V	0.03+0	3.3
SCDSI25T-180 □ -N	18	1KHz,1V	0.034+0	3
SCDSI25T-220 □ -N	22	1KHz,1V	0.036+0	2.8
SCDSI25T-270 □ -N	27	1KHz,1V	0.051+0	2.3
SCDSI25T-330 □ -N	33	1KHz,1V	0.057+0	2.1
SCDSI25T-390 □ -N	39	1KHz,1V	0.068+0	2
SCDSI25T-470 □ -N	47	1KHz,1V	0.075+0	1.8
SCDSI25T-560 □ -N	56	1KHz,1V	0.11+0	1.7
SCDSI25T-680 □ -N	68	1KHz,1V	0.12+0	1.5
SCDSI25T-820 □ -N	82	1KHz,1V	0.14+0	1.4
SCDSI25T-101 □ -N	100	1KHz,1V	0.16+0	1.3
SCDSI25T-121 □ -N	120	1KHz,1V	0.17+0	1.1
SCDSI25T-151 □ -N	150	1KHz,1V	0.23+0	1
SCDSI25T-181 □ -N	180	1KHz,1V	0.29+0	0.9
SCDSI25T-221 □ -N	220	1KHz,1V	0.4+0	0.8
SCDSI25T-271 □ -N	270	1KHz,1V	0.46+0	0.75
SCDSI25T-331 □ -N	330	1KHz,1V	0.51+0	0.68
SCDSI25T-391 □ -N	390	1KHz,1V	0.69+0	0.65
SCDSI25T-471 □ -N	470	1KHz,1V	0.77+0	0.58
SCDSI25T-561 □ -N	560	1KHz,1V	0.86+0	0.54
SCDSI25T-681 □ -N	680	1KHz,1V	1.2+0	0.48
SCDSI25T-821 □ -N	820	1KHz,1V	1.34+0	0.43
SCDSI25T-102 □ -N	1000	1KHz,1V	1.53+0	0.4

NOTE : □ -tolerance K=±10% / =±15% / M=±20% / N=+40% -20%

1.Operating temperature range -40°C~85°C

2.Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

TYPE	Inductance(μ H)	Test Freq	RDC(Ω)Max	IDC(A)Max
SCDSI27T-1R2 □ -N	1.2	100KHz, IV	0.007+0	9.8
SCDSI27T-2R4 □ -N	2.4	100KHz, IV	0.0115+0	8
SCDSI27T-3R3 □ -N	3.3	100KHz, IV	0.0135+0	7.5
SCDSI27T-3R5 □ -N	3.5	100KHz, IV	0.0135+0	7.5
SCDSI27T-4R7 □ -N	4.7	100KHz, IV	0.0158+0	6.8
SCDSI27T-6R1 □ -N	6.1	100KHz, IV	0.0176+0	6.6
SCDSI27T-7R6 □ -N	7.6	100KHz, IV	0.02+0	5.9
SCDSI27T-100 □ -N	10	1KHz, IV	0.0216+0	5.4
SCDSI27T-120 □ -N	12	1KHz, IV	0.0243+0	4.9
SCDSI27T-150 □ -N	15	1KHz, IV	0.027+0	4.5
SCDSI27T-180 □ -N	18	1KHz, IV	0.0392+0	3.9
SCDSI27T-220 □ -N	22	1KHz, IV	0.0432+0	3.6
SCDSI27T-270 □ -N	27	1KHz, IV	0.0459+0	3.4
SCDSI27T-330 □ -N	33	1KHz, IV	0.0648+0	3
SCDSI27T-390 □ -N	39	1KHz, IV	0.0729+0	2.75
SCDSI27T-470 □ -N	47	1KHz, IV	0.1+0	2.5
SCDSI27T-560 □ -N	56	1KHz, IV	0.11+0	2.35
SCDSI27T-680 □ -N	68	1KHz, IV	0.14+0	2.1
SCDSI27T-820 □ -N	82	1KHz, IV	0.16+0	1.95
SCDSI27T-101 □ -N	100	1KHz, IV	0.22+0	1.7
SCDSI27T-121 □ -N	120	1KHz, IV	0.25+0	1.6
SCDSI27T-151 □ -N	150	1KHz, IV	0.28+0	1.42
SCDSI27T-181 □ -N	180	1KHz, IV	0.35+0	1.3
SCDSI27T-221 □ -N	220	1KHz, IV	0.39+0	1.16
SCDSI27T-271 □ -N	270	1KHz, IV	0.56+0	1.06
SCDSI27T-331 □ -N	330	1KHz, IV	0.64+0	0.95
SCDSI27T-391 □ -N	390	1KHz, IV	0.7+0	0.88
SCDSI27T-471 □ -N	470	1KHz, IV	0.98+0	0.79
SCDSI27T-561 □ -N	560	1KHz, IV	1.07+0	0.73
SCDSI27T-681 □ -N	680	1KHz, IV	1.46+0	0.67
SCDSI27T-821 □ -N	820	1KHz, IV	1.64+0	0.6
SCDSI27T-102 □ -N	1000	1KHz, IV	1.82+0	0.55

NOTE : □ -tolerance K=±10% / ±15% / M=±20% / N=+40% -20%

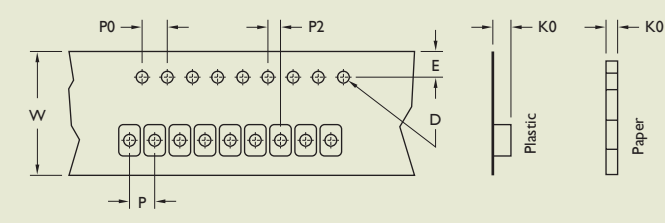
1. Operating temperature range -40°C~85°C

2. Inductance drop = 10% typ. at IDC

"-N"FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)

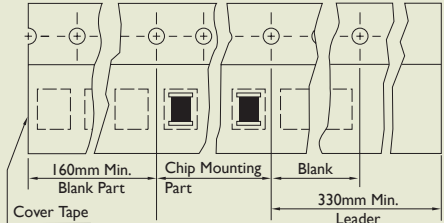


TAPE DIMENSIONS

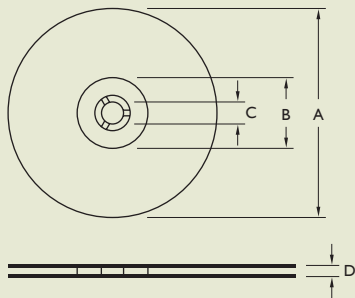


TAPE MATERIAL

Carrier Tape : Polystyrene Cover Type : Polyethylene

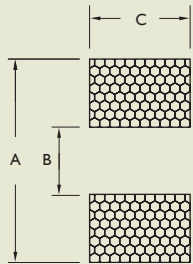


REEL DIMENSIONS



RECOMMENDED PATTERN

Land Pattern



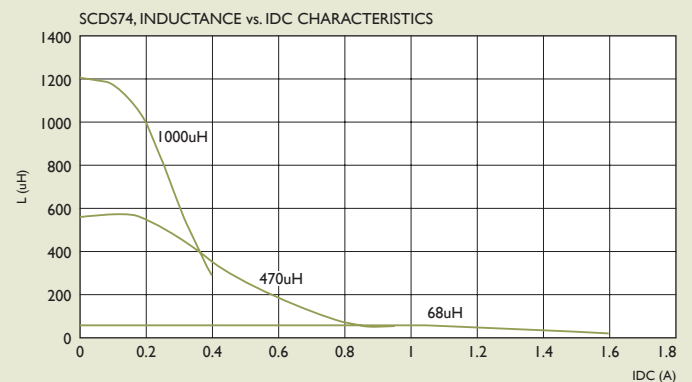
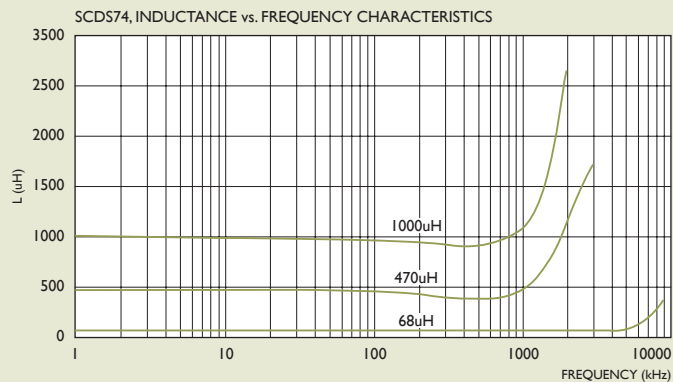
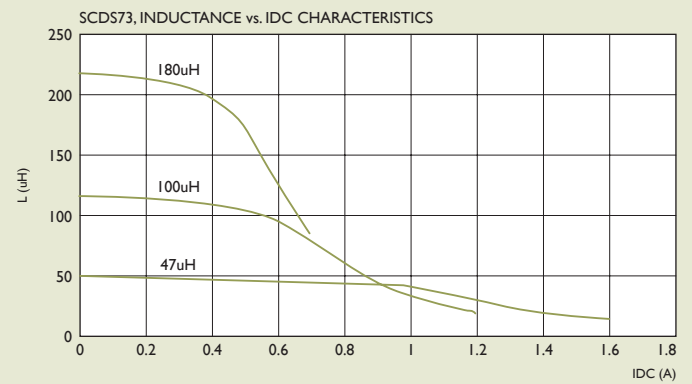
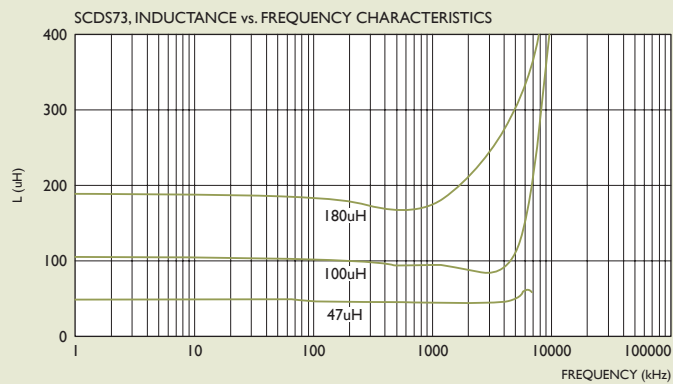
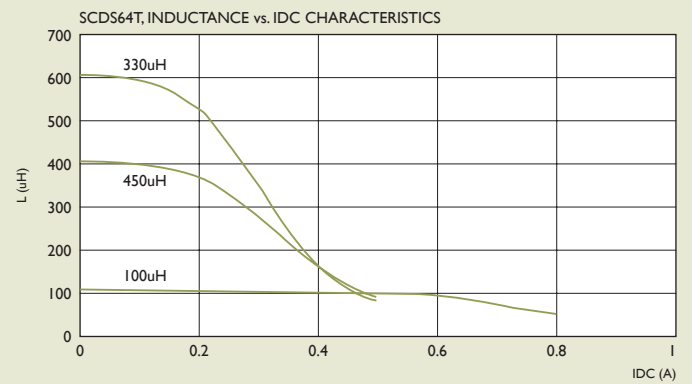
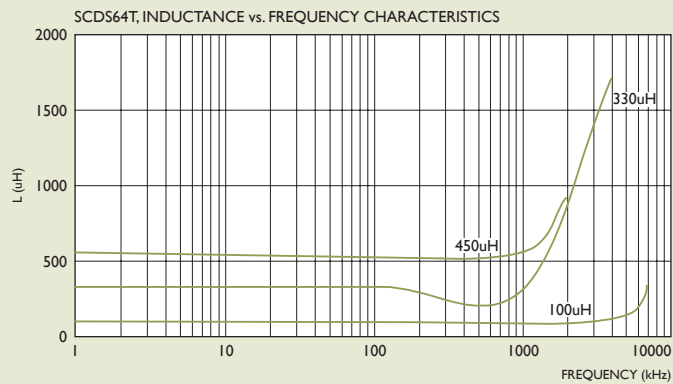
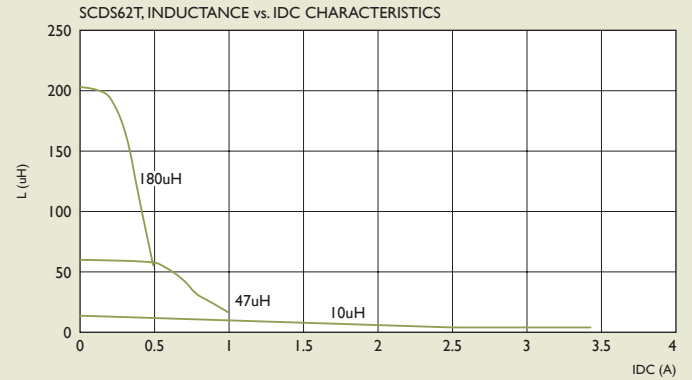
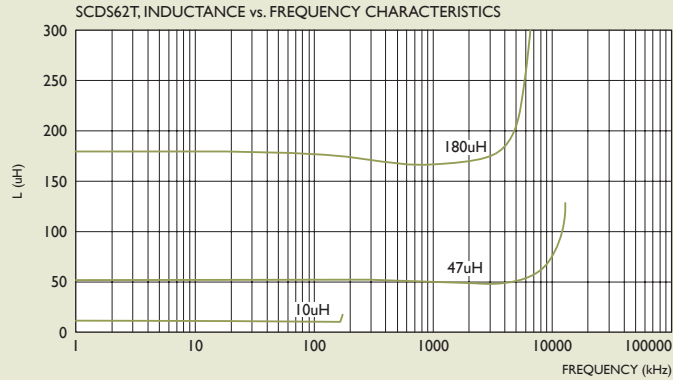
Dimensions : mm															
TYPE	TAPE DIMENSIONS							RECOMMENDED PATTERN			REEL DIMENSIONS				QUANTITY
	K0	D	E	W	P	P0	P2	A	B	C	A	B	C	D	PCS/REEL
SCDS62	3.4	1.55	1.75	16	12	4	2	8.1	4	2.5	330	100	13	17.4	1500
SCDS64	4.9	1.55	1.75	16	12	4	2	8.1	4	2.5	330	100	13	17.4	1000
SCDS73	3.6	1.55	1.75	16	12	4	2	8.4	4.4	2.2	330	100	13	17.4	1600
SCDS74	5.0	1.55	1.75	16	12	4	2	8.4	4.4	2.2	330	100	13	17.4	1000
SCDS124	5.1	1.55	1.75	24	16	4	2	13	7	5.4	330	100	13	24.4	500
SCDS125	6.7	1.55	1.75	24	16	4	2	13	7	5.4	330	100	13	24.4	600
SCDS127	8.7	1.55	1.75	24	16	4	2	13	7	5.4	330	100	13	24.4	500
SCDS104R	4.1	1.50	1.75	24	16	4	2	10.7	7.3	3.2	330	100	13	24.4	1000



TYPICAL ELECTRICAL CHARACTERISTICS

Curves of SCDS Series

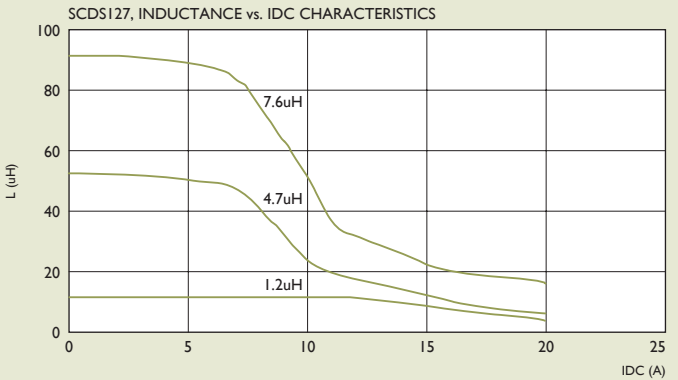
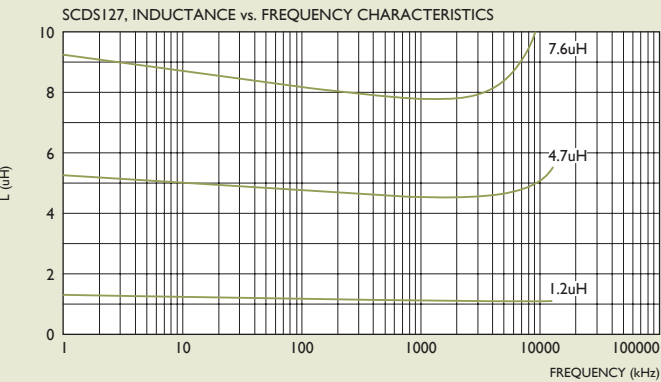
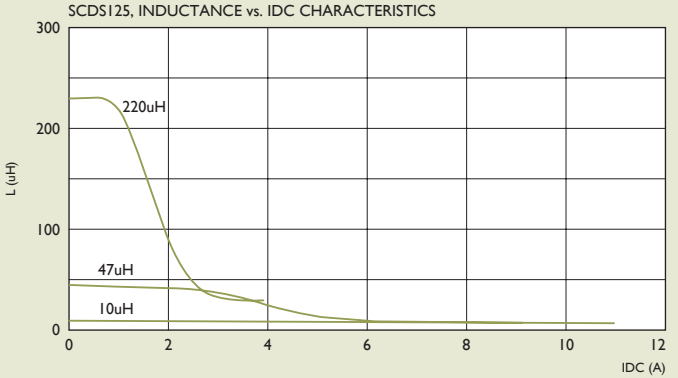
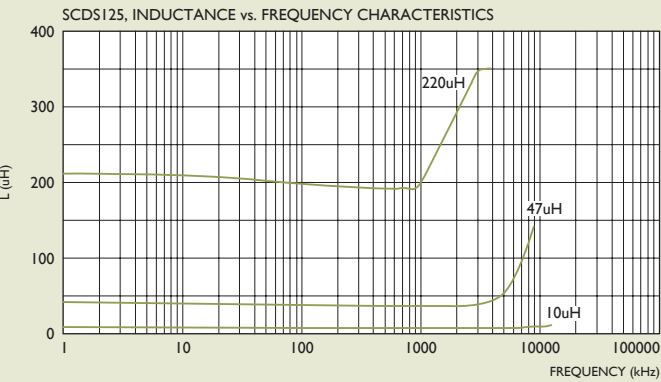
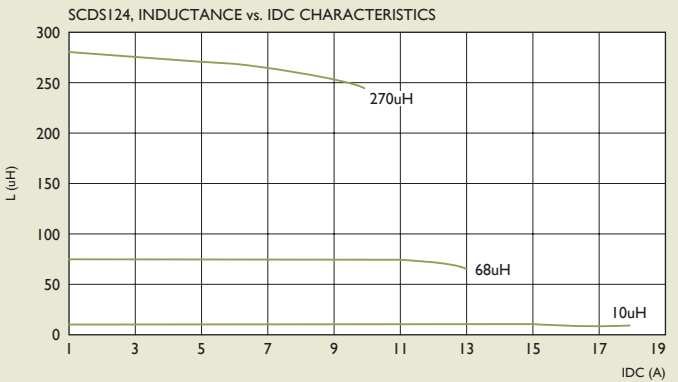
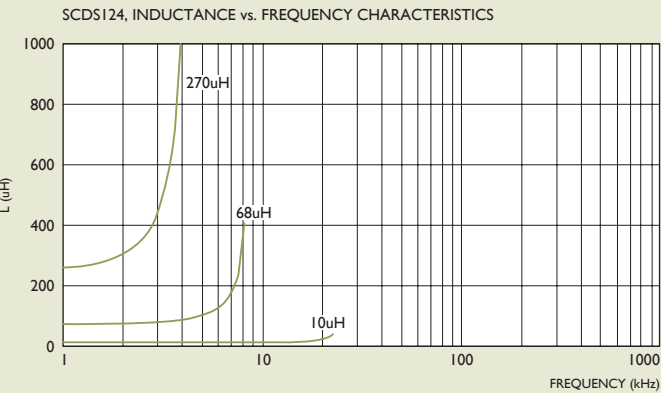
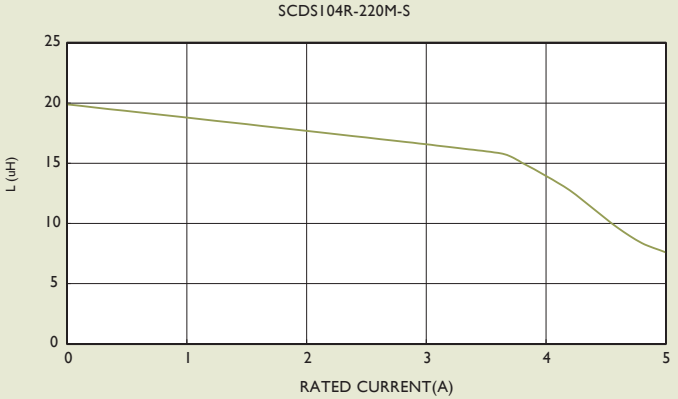
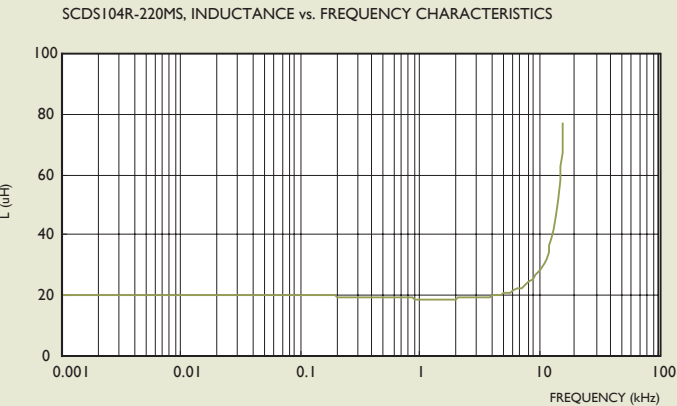
Test Instruments : HP4291A Impedance / Material Analyzer





TYPICAL ELECTRICAL CHARACTERISTICS

TCurves of SCDS Series
Test Instruments : HP4291A Impedance / Material Analyzer





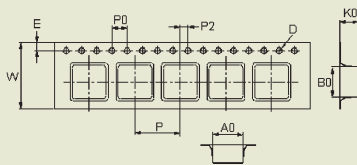
TYPICAL ELECTRICAL CHARACTERISTICS

Test Instruments : HP4291A Impedance / Material Analyzer

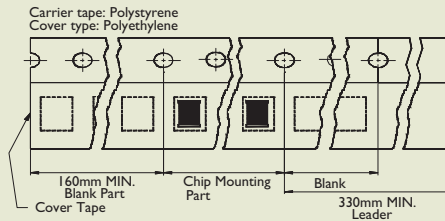
Packaging Specifications

SCDS 2D11 ~ 6D38

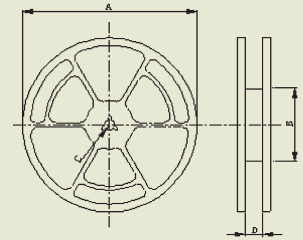
Tape Dimensions



Tape Material



Reel Dimensions



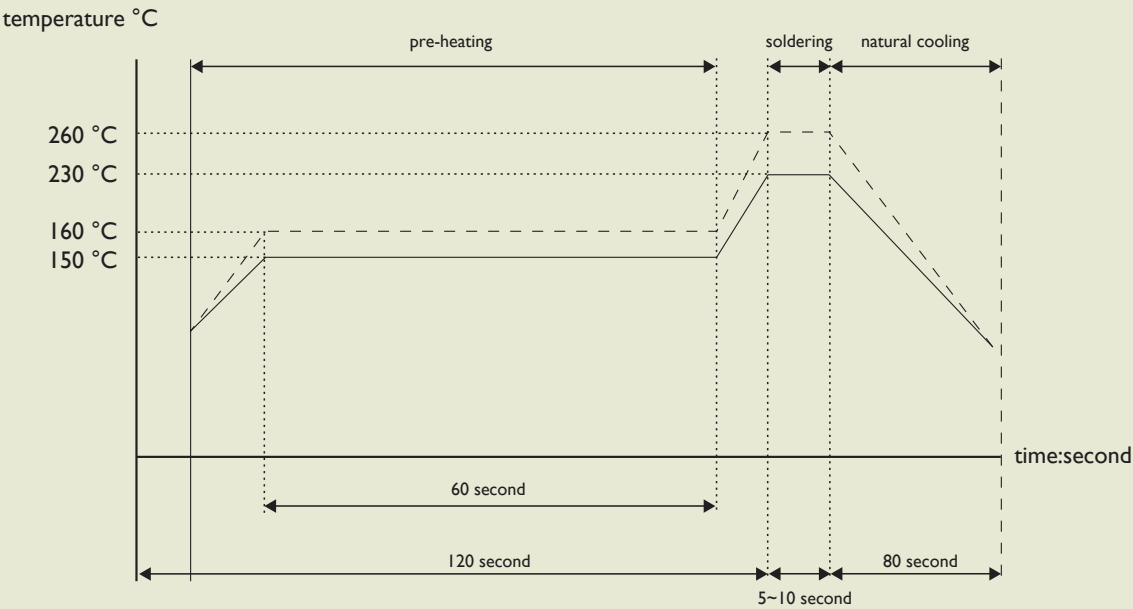
Dimensions : mm

TYPE	TAPA DIMENSIONS									REEL DIMENSIONS				QUANTITY PCS/REEL	RECOMMENDED PATTERN	
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D		A	B
ZSCD2D11	3.3	3.3	1.3	1.5	1.75	12	8	4	2	178	60	13	13.2	1500	1.3	1.7
SCD2D14	3.3	3.3	1.6	1.5	1.75	12	8	4	2	178	60	13	13.2	1000	1.3	1.7
SCDS2S18LD	3.3	3.3	1.9	1.5	1.75	12	8	4	2	178	60	13	13.2	1000	1.3	1.7
SCDS2S18HP	3.3	3.3	1.9	1.5	1.75	12	8	4	2	178	60	13	13.2	1000	1.3	1.7
SCDS3D12	4.2	4.2	1.25	1.5	1.75	12	8	4	2	330	100	13	13.4	5000	4.6	1.6
SCDS3D16	4.3	4.3	2.1	1.5	1.75	12	8	4	2	178	60	13	13.2	1000	1.4	2.4
SCDS4D18	5.3	5.3	2.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000	1.9	1.5
SCDS4D28	5.3	5.3	3.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000	1.9	1.5
SCDS5D18	6.2	6.2	2.2	1.5	1.75	12	8	4	2	330	100	13	13.4	2000	2.15	2.0
SCDS5D28	6.2	6.2	3.2	1.5	1.75	12	8	4	2	330	100	13	13.4	2000	2.15	2.0
SCDS6D28	7.2	7.2	3.2	1.5	1.75	16	12	4	2	330	100	13	17.4	1500	2.65	2.0
SCDS6D38	7.1	7.1	4.1	1.5	1.75	16	12	4	2	330	100	13	17.4	1000	2.65	2.0



RECOMMEND SOLDERING CONDITIONS

for:CL/ CLH/ SQV/ SMD power inductors/ SMD Chip Beads/ SMD Filters,Transformers, Current Sensors



for: lead solder	—————
for: lead-free solder	-----